PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP		RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR		
PPP PPP		RRR RRR RRR RRR	111 111 111	

_\$2

PLI PLI PLI PLI PLI PLI PLI PLI

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PL!

PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP		2222222 2222222 2222222 22222222 222222	000000 00 00 00 00	\$	
	\$				

Page

(1)

.title pli\$close - pl1 runtime close file .ident /1-004/

H 14

; Edit DSB1004 ; Edit CGN1003 ; Edit WHM1002

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facility:

VAX/VMS PL1 runtime library. abstract:

This module contains the pl1 runtime routine for closing a file. author: c. spitz 18-jul-79

modified:

1-002 29-September-1982 Bill Matthews Invoke macros \$defdat and rtshare instead of \$defopr and share.

1-003 Chip Nylander 23-February-1983 Add new optional parameter to PLI\$CLOSE. If parameter is present, it specifies the severity level at which to signal errors.

1-004 Dave Blickstein 26-March-1984 Change calls to LIB\$FREE_VM to specify only the actual number

PL 1

Page

local data

rtshare

;sharable

PLISCLOSE 1-004

```
Page 3
```

VAX/VMS Macro V04-00 [PLIRTL.SRC]PLICLOSE.MAR;1

```
pli$close -- close a file
                                         functional description:
                                        This routine closes a pl1 file. The syntax of a close statement is: CLOSE FILE(file-ref);
                                        inputs:
                                               (ap) = number of arguments (1)
4(ap) = address of the fcb for this file
8(ap) = address of the environment option
                                              12(ap) = severity level at which to signal errors
                                        outputs:
                                               the fcb is updated to reflect the closed status of the file.
                                               an rms close is issued, the file block is deallocated, and the
                                               fcb is removed from the open fcb list.
                     OOFC
                                               .entry pli$close, m<r2, r3, r4, r5, r6, r7>
                                        check argument
                       D5
14
D4
                                                       (ap)
                                               tstl
                                                                                 ; if no parameters
                                               bgtr
                                                                                 : then
                                               ctrl
                                                                                 ; indicate no fcb
                       DO
31
   50
        00000000°8F
                                                                                set invalid parameters
                                               movl
                                                       #pli$_parm,r0
                                               brw
                                                                                 :and fail
                                      ; if file opened, close it.
                                                       #atr_v_opened,fcb_l_attr(r2),20$; if file opened
                                       105:
      03 OC A2
                       D0
E0
31
                                               movl
                                               bbs
                                               brw
                                                       CA
                                      20$:
                                               bicl
                       9E
03
            00A6
                                               movab
        00001040 8F
OC A2
                                               bitl
      05 OC A2
                     then cont
                                               bneg
                                                       bbc
                                               tstl
                                                                                ;any carriage control pending?
                                                        26$
fcb_l_buf(r2),fcb_l_buf_pt(r2);if buf empty
                                               bneg
      1C A2
                                       25$:
             14
                                               cmpl
                                                                                 ; then cont
                                               begl
                                       26$:
                                                                                 :save ap
                                               pushl
        00000000
                                                                                 set fcb addr in ap
                                               movl
                 GF
5C
                                                       g^pli$$put_rec
                                                                                 put the last record
                                               jsb
                                                                                 restore ap
                                               popl
                                       30$:
            02
                                               cmpl
                                                                                 :close environment?
                                               blss
                                                                                 ; if lss, no
              08
                                                                                 anything there?
                                               tstl
                                                        8(ap)
                                               begl
                                                                                 ; if eql, no
            5E
                                                       #env_k_len,sp
r2,r6
                                               subl
                                                                                get room for env block
                           0061
                                                                                ; save fcb and tab addr
                                               pvom
```

```
K 14
PLISCLOSE
1-004
                                                - pl1 runtime close file
                                                                                                                                                VAX/VMS Macro V04-00
[PLIRTL.SRC]PLICLOSE.MAR;1
                                                                                                                                                                                                    (1)
                                                                                                 #0,(sp),#0,#env_k_len,(sp) ;zero env block
r6,r2 ;restore fcb and fab
            6E
                    22
                                                  27CDDDD999FE84
                                                                                     movc5
                                                                  14434567890123456789
                                                                                     movq
                             00000040
                                                                                                 #env_m_close,env_l_status(sp) ;set close status
sp ;set addr of env block
                                                                                     pushl
                                                                                                 Sp
8(ap)
                                                                                                                                      set addr of close environment
                                      08
                                                                                     pushl
                                                                                     pushl
                                      08
08
08
                                                                                                 8(sp)
                                                                                                                                      ;set addr of addr
                                                                                     pushab
                                                                                                 8(sp)
8(sp)
                                                                                     pushab
                                                                                                                                      ;set addr of addr
                                                                                     pushab
                                                                                                                                      ;set addr of addr
                                                                                                 #6.g^pli$$envir
r0.37$
                     00000000 GF
                                                                                                                                      process environment
                                                                                     calls
                                                                                                                                      ;if lbs, cont
;error already signaled, just return
;close the file
;if error on close
                                      01
                                                                                     blbs
                                                                                     ret
                                                                         37$:
                                                                                     $close
                                                        0098
009B
00A2
00A6
00A9
                                                                                                 r0,60$
#pli$_rmsf,r0
r0,fcb_l_error(r2)
r2,r1
                                                  E8
D0
D0
                                                                                     blbs
                             00000000
                                                                                                                                      then set rms fab error code
                                                                                     movl
                                                                         40$:
                              08
                                                                                                                                      ;put error in fcb
;set fcb address
                                                                                     movL
                                                                                     movl
                                                  DD
                                                                         50$:
                                                                                                                                      ; push fcb addr
                                                                                     pushl
                                                  DD
                                                                                     pushl
                                                                                                                                      ; push error code
                                                        00AD
00B3
00B6
00B8
00BE
00C5
                                                                                                 #plis error
(ap),#3
                                                  DD
D1
19
                                                                   160
161
162
163
164
165
                                                                                                                                      ;set error condition
;error level specified?
;if lss, no
                             00000000
                                                                                     pushl
                                                                                     cmpl
                                                                                     blss
                                                  FO
                                                                                                 12(ap),#0,#3,(sp)
#3,g°pli$io_error
                                      00
                                                                                     insv
                                                                                                                                      ; set severity to specified level
                                                  FB
04
                     00000000 GF
                                                                         53$:
                                                                                     calls
                                                                                                                                      signal the condition
                                                                                     ret
                                                                                                                                      ; return
                                                                   166
                                                                         55$:
                                                                                                 #plis_virmemdeal,r0
40$
                             00000000'8F
                                                                                                                                      ;set vir. mem. deallocation error ;and fail
                                                                                     movl
                                                                                     brb
                                                        OOCF
                                                        OOCF
                                                                            deallocate file buffer
                                                        OOCF
                                                                         60$:
                                     14 A2
27
0C
                                                        OOCF
                                                                                                 fcb_l_buf(r2)
                                                                                                                                      ; if buffer allocated
                                                        0002
                                                                                                 #atr_v_record.fcb_l_attr(r2).70$ ;if stream
fcb_w_linesize(r2),=(sp) ;set length of buffer
75$
                                                                                     beal
                         06 OC A2 2A
                                                        00D4
                                                                                     bbs
                                           A2
03
                                                        00D9
                                                                                     movzwl
                                                        OODD
                                                                                     prp
                                                                   176
177
                                                        OODF
                                                                                                 fcb_l_buf_end(r2)
fcb_l_buf(r2)
4(sp)
                                                  DD
                                      18
                                                                                     pushl
                                                                                                                                      ; push length of buffer
                                                        00E2
00E5
                                                                         75$:
                                                                                                                                      push address of buffer push address of length
                                      14
                                                  DF
                                                                                     pushal
                                      04
                                          AE 024 50 A2 C10 A2
                                                  DF
                                                                                     pushal
                                                                                                 #2.g^lib$free_vm
                                                  F09444153A5FCBB094
                     00000000 GF
                                                                                     calls
addl2
                                                                                                                                      :free buffer
                                                        00EF
00F2
                                                                                                 0.55$
                                   5E
                                                                   180
181
183
184
186
188
191
193
193
197
197
                                      D1
                                                                                     blbc
                                                                                                                                       ; if deallocation error then fail
                                                                                                 fcb_l_buf(r2) ; indicate buffer not a
fcb_l_buf_end(r2)
<fcb_5_nam+nam$b_esl>(r2) ; clear esl
#atr_v_indexed,fcb_l_attr(r2),85$ ; if indexed
fcb_l_kcb(r2) ; kcb_allocated?
                                                        00F 5
                                                                                     clrl
                                                                                                                                      indicate buffer not allocated
                                                        00F8
                                      18
                                                                                     clrl
                                                        00FB
00FF
                         23 OC A2 38
                                   0101
                                                                         80$:
                                                                                     clrb
                                                                                     bbc
                                                        0104
0107
0109
0100
0111
0114
0117
0121
0127
0127
                                                                                     tstl
                                                                                                                                      ;if eql, no, cont
;get number of kcbs
                                                                                     begl
                                                                                                 fcb_b_numkcbs(r2),r1
#kcb_c_len,r1,-(sp)
fcb_l_kcb(r2)
                                      3C
                                                                                     movzbl
mull3
                                   51
                                                                                                                                      get size of kcbs
                                      38
                                                                                                                                      push address of kcbs
                                                                                     pushal
                                                                                                                                      push address of length
                                                                                     pushal
                                                                                                 4(Sp)
                     0000@00 GF
                                                                                                 #2,g^lib$free_vm
                                                                                     calls
addl2
                                                                                                                                      free kcbs
                                                                                                 #4.5p
                                      A2
                                                                                     blbc
                                                                                                                                       if error, fail
                                                                                                  tcb_l_kcb(r2)
                                                                                     clrl
                                                                                                                                      ; indicate no kcbs
                                                                            remove file from open file queue, set it not open and return
```

```
M 14
       PLI$CLOSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-SEP-1984 02:11:51 VAX/VMS Macro V04-00 6-SEP-1984 11:36:29 [PLIRTL.SRC]PLICLOSE.MAR;1
                                                                                                                                                                                                                                                                    - pl1 runtime close file
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (1)
       Symbol table
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KCB-W-LEN3
KCB-W-LEN3
KCB-W-LEN4
KCB-W-LEN6
KCB-W-LEN6
KCB-W-POSO
KCB-W-POSO
KCB-W-POSS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      00000001
00060053
00020000
00000040
00000002
       $$.TMP1
        $$.TMP2
                                                                                                                                                                                                                                                             =
ATR M BFALL

ATR M INPUT

ATR M OPENED

ATR W RECORD

ATR V OPENED

ATR V PRINT

ATR W RECORD

ENV K LEN

ENV L FILEIDTO

ENV L FILEIDTO

ENV L STATUS

ENV M CLOSE

ENV Q CREDATE

ENV W OWNGROUP

ENV W OWNG
                                                                                                                                                                                                                                                             =
                                                                                                                                                                                                                                                             =
                                                                                                                                                                                                                                                            =
                                                                                                                                                                                                                                                                        00000002
0000100
0000001
00000007
00000000
00000022
00000014
00000018
                                                                                                                                                                                                                                                            =
                                                                                                                                                                                                                                                            =
                                                                                                                                                                                                                                                            =
                                                                                                                                                                                                                                                            =
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00000004
0000000C
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                                                                                                                                                                                                                                                                              0000001E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *******
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         00000000 RG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PLISIO ERROR
PLIS ERROR
PLIS PARM
PLIS RMSF
PLIS VIRMEMDEAL
                                                                                                                                                                                                                                                                              00000010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ******
                                                                                                                                                                                                                                                                              000001c2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         *******
                                                                                                                                                                                                                                                                              0000012E
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         = 00000001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ******
                                                                                                                                                                                                                                                                            000000F6
0000003C
                                                                                                                                                                                                                                                                            00000062
                                                                                                                                                                                                                                                                             000001c2
                                                                                                                                                                                                                                                                             00000034
                                                                                                                                                                                                                                                                             00000000
                                                                                                                                                                                                                                                                             00000014
                                                                                                                                                                                                                                                                             00000018
                                                                                                                                                                                                                                                                             0000001C
 FCB_L_CNDADDR
FCB_L_CNDADDR
FCB_L_CONDIT
FCB_L_DTTR
FCB_L_ERROR
FCB_L_NEXT
FCB_L_PREVIOUS
FCB_L_PRN
FCB_Q_RFA
FCB_W_COLUMN
FCB_W_IDENT_LEN
FCB_W_IDENT_LEN
FCB_W_LINESIZE
FCB_W_PAGE
FCB_W_
                                                                                                                                                                                                                                                                             000001B2
                                                                                                                                                                                                                                                                            000001AE
                                                                                                                                                                                                                                                                             00000010
                                                                                                                                                                                                                                                                             00000003
                                                                                                                                                                                                                                                                              00000038
                                                                                                                                                                                                                                                                              00000000
                                                                                                                                                                                                                                                                              00000004
                                                                                                                                                                                                                                                                              00000034
                                                                                                                                                                                                                                                                              00000020
                                                                                                                                                                                                                                                                              000000SE
                                                                                                                                                                                                                                                                              00600040
                                                                                                                                                                                                                                                                              00000030
                                                                                                                                                                                                                                                                              0000002A
                                                                                                                                                                                                                                                                              00000032
                                                                                                                                                                                                                                                                              0000002
                                                                                                                                                                                                                                                                             00000028
0000002C
                                                                                                                                                                                                                                                                              00000000
                                                                                                                                                                                                                                                                             00000028
0000000A
                                                                                                                                                                                                                                                                              000000E
```

-- pl1 runtime close file

VAX/VMS Ma o VO4-00 EPLIRTL.SR JPLICLOSE.MAR; 1

! Psect synopsis!

PSECT name	Allocation	PSECT No.	Attributes			
SABSS PLISCODE	00000000 (0. 000001C2 (450. 0000012E (302.	00 (0.)	NOPIC USR NOPIC USR PIC USR	CON ABS	LCL NOSHR NOEX LCL NOSHR EX LCL SHR EX	KE RD WRT NOVEC BYTE

N 14

Performance indicators

Phase	Page faults	CPU Time	Elapsed Time
Initialization	9	00:00:00.03	00:00:01.09
Command processing	72	00:00:00.47	00:00:06.16
Pass 1	72 176	00:00:06.10	00:00:23.63
Symbol table sort	0	00:00:00.63	00:00:02.03
Pass 2	41	00:00:01.05	00:00:04.54
Symbol table output	9	00:00:00.08	00:00:00.08
Psect synopsis output	2	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	309	00:00:08.38	00:00:37.55

The working set limit was 900 pages.
30745 bytes (61 pages) of virtual memory were used to buffer the intermediate code.
There were 30 pages of symbol table space allocated to hold 516 non-local and 16 local symbols.
203 source lines were read in Pass 1, producing 13 object records in Pass 2.
18 pages of virtual memory were used to define 16 macros.

+-----Macro library statistics !

Macro library name

PLI\$CLOSE

Psect synopsis

Macros defined

\$255\$DUA28:[PLIRTL.OBJ]PLIRTMAC.MLB;1 \$255\$DUA28:[SYSLIB]STARLET.MLB;2 TOTALS (all libraries)

593 GETS were required to define 13 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=TRACEBACK/LIS=LIS\$:PLICLOSE/OBJ=OBJ\$:PLICLOSE MSRC\$:PLICLOSE/UPDATE=(ENH\$:PLICLOSE)+LIB\$:PLIRTMAC/L

0306 AH-BT13A-SE

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